



Public Service Commission of South Carolina 101 Executive Center Dr., Suite 100 Columbia, SC 29210

RE: REQUIRED NOTICE TO UTILITIES AND STATE REGULATORY AUTHORITIES

TO WHOM IT MAY CONCERN:

Pursuant to 18 C.F.R. II 292.207(a)(ii), JSD Management LLC, on behalf of its Managing Member Johnson Development Associates, Inc., is hereby providing notice and a copy of Form 556.

Please let us know if any of the included does not meet your requirements.

Best.

Nathaniel Smith

100 Dunbar Street, Suite 400 Office: (864) 594-5878

Email: nasmith@johnsondevelopment.net

Copy to:

State of South Carolina Office of Regulatory Staff 1401 Main Street, Suite 900 Columbia, S.C. 29201



FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 06/30/2019

Form 556 Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

General

Questions about completing this form should be sent to <u>Form556@ferc.gov</u>. Information about the Commission's QF program, answers to frequently asked questions about QF requirements or completing this form, and contact information for QP program staff are available at the Commission's QF website, <u>www.ferc.gov/QF</u>. The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

Who Must File

Any applicant seeking QF status or recertification of QF status for a generating facility with a net power production capacity (as determined in lines 7a through 7g below) greater than 1000 kW must file a self-certification or an application for Commission certification of QF status, which includes a properly completed Form 556. Any applicant seeking QF status for a generating facility with a net power production capacity 1000 kW or less is exempt from the certification requirement, and is therefore not required to complete or file a Form 556. See 18 C.F.R. § 292.203.

How to Complete the Form 556

This form is intended to be completed by responding to the items in the order they are presented, according to the instructions given. If you need to back-track, you may need to clear certain responses before you will be allowed to change other responses made previously in the form. If you experience problems, click on the nearest help button () for assistance, or contact Commission staff at Form556@ferc.gov.

Certain lines in this form will be automatically calculated based on responses to previous lines, with the relevant formulas shown. You must respond to all of the previous lines within a section before the results of an automatically calculated field will be displayed. If you disagree with the results of any automatic calculation on this form, contact Commission staff at Form556@ferc.gov to discuss the discrepancy before filing.

You must complete all lines in this form unless instructed otherwise. Do not alter this form or save this form in a different format. Incomplete or altered forms, or forms saved in formats other than PDF, will be rejected.

How to File a Completed Form 556

Applicants are required to file their Form 556 electronically through the Commission's eFiling website (see instructions on page 2). By filing electronically, you will reduce your filing burden, save paper resources, save postage or courier charges, help keep Commission expenses to a minimum, and receive a much faster confirmation (via an email containing the docket number assigned to your facility) that the Commission has received your filing.

If you are simultaneously filing both a waiver request and a Form 556 as part of an application for Commission certification, see the "Waiver Requests" section on page 3 for more information on how to file.

Paperwork Reduction Act Notice

This form is approved by the Office of Management and Budget. Compliance with the information requirements established by the FERC Form No. 556 is required to obtain or maintain status as a QF. See 18 C.F.R. § 131.80 and Part 292. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The estimated burden for completing the FERC Form No. 556, including gathering and reporting information, is as follows: 3 hours for self-certification of a small power production facility, 8 hours for self-certifications of a cogeneration facility, 6 hours for an application for Commission certification of a small power production facility, and 50 hours for an application for Commission certification of a cogeneration facility. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to the following: Information Clearance Officer, Office of the Executive Director (ED-32), Federal Energy Regulatory Commission, 888 First Street N.E., Washington, DC 20426 (DataClearance@ferc.gov); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (oira_submission@omb.eop.gov). Include the Control No. 1902-0075 in any correspondence.

Electronic Filing (eFiling)

To electronically file your Form 556, visit the Commission's QF website at www.ferc.gov/QF and click the eFiling link.

If you are eFiling your first document, you will need to register with your name, email address, mailing address, and phone number. If you are registering on behalf of an employer, then you will also need to provide the employer name, alternate contact name, alternate contact name, alternate contact phone number and and alternate contact email.

Once you are registered, log in to eFiling with your registered email address and the password that you created at registration. Follow the instructions. When prompted, select one of the following QF-related filing types, as appropriate, from the Electric or General filing category.

| Filing category | Filing Type as listed in eFiling | Description |
|-----------------|---|--|
| | (Fe'e) Application for Commission Cert. as Cogeneration QF | Use to submit an application for Commission certification or Commission recertification of a cogeneration facility as a QF. |
| | (Fee) Application for Commission Cert. as Small Power QF | Use to submit an application for Commission certification or Commission recertification of a small power production facility as a QF. |
| | Self-Certification Notice (QF, EG, FC) | Use to submit a notice of self- certification of your facility (cogeneration or small power production) as a QF. |
| Electric | Self-Recertification of Qualifying Facility (QF) | Use to submit a notice of self- recertification of your facility (cogeneration or small power production) as a QF. |
| | Supplemental Information or Request | Use to correct or supplement a Form 556 that was submitted with errors or omissions, or for which Commission staff has requested additional information. Do not use this filing type to report new changes to a facility or its ownership; rather, use a self- recertification or Commission recertification to report such changes. |
| General | (Fee) Petition for Declaratory Order (not under FPA Part 1) | Use to submit a petition for declaratory order granting a waiver of Commission QF regulations pursuant to 18 C.F.R. §§ 292.204(a) (3) and/or 292.205(c). A Form 556 is not required for a petition for declaratory order unless Commission recertification is being requested as part of the petition. |

You will be prompted to submit your filing fee, if applicable, during the electronic submission process. Filing fees can be paid via electronic bank account debit or credit card.

During the eFiling process, you will be prompted to select your file(s) for upload from your computer.

FERC Form 556 Page 3 - Instructions

Filing Fee

No filing fee is required if you are submitting a self-certification or self-recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(a).

A filing fee is required if you are filing either of the following:

(1) an application for Commission certification or recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(b), or (2) a petition for declaratory order granting waiver pursuant to 18 C.F.R. §§ 292.204(a)(3) and/or 292.205(c).

The current fees for applications for Commission certifications and petitions for declaratory order can be found by visiting the Commission's QF website at www.ferc.gov/QF and clicking the Fee Schedule link.

You will be prompted to submit your filing fee, if applicable, during the electronic filing process described on page 2.

Required Notice to Utilities and State Regulatory Authorities

Pursuant to 18 C.F.R. § 292.207(a)(ii), you must provide a copy of your self-certification or request for Commission certification to the utilities with which the facility will interconnect and/or transact, as well as to the State regulatory authorities of the states in which your facility and those utilities reside. Links to information about the regulatory authorities in various states can be found by visiting the Commission's QF website at www.ferc.gov/QF and clicking the Notice Requirements link.

What to Expect From the Commission After You File

An applicant filing a Form 556 electronically will receive an email message acknowledging receipt of the filing and showing the docket number assigned to the filing. Such email is typically sent within one business day, but may be delayed pending confirmation by the Secretary of the Commission of the contents of the filing.

An applicant submitting a self-certification of QF status should expect to receive no documents from the Commission, other than the electronic acknowledgement of receipt described above. Consistent with its name, a self-certification is a certification by the applicant itself that the facility meets the relevant requirements for QF status, and does not involve a determination by the Commission as to the status of the facility. An acknowledgement of receipt of a self-certification, in particular, does not represent a determination by the Commission with regard to the QF status of the facility. An applicant self-certifying may, however, receive a rejection, revocation or deficiency letter if its application is found, during periodic compliance reviews, not to comply with the relevant requirements.

An applicant submitting a request for Commission certification will receive an order either granting or denying certification of QF status, or a letter requesting additional information or rejecting the application. Pursuant to 18 C.F.R. § 292.207(b)(3), the Commission must act on an application for Commission certification within 90 days of the later of the filing date of the application or the filing date of a supplement, amendment or other change to the application.

Waiver Requests

18 C.F.R. § 292.204(a)(3) allows an applicant to request a waiver to modify the method of calculation pursuant to 18 C.F.R. § 292.204(a)(2) to determine if two facilities are considered to be located at the same site, for good cause. 18 C.F.R. § 292.205(c) allows an applicant to request waiver of the requirements of 18 C.F.R. §§ 292.205(a) and (b) for operating and efficiency upon a showing that the facility will produce significant energy savings. A request for waiver of these requirements must be submitted as a petition for declaratory order, with the appropriate filing fee for a petition for declaratory order. Applicants requesting Commission recertification as part of a request for waiver of one of these requirements should electronically submit their completed Form 556 along with their petition for declaratory order, rather than filing their Form 556 as a separate request for Commission recertification. Only the filing fee for the petition for declaratory order must be paid to gover both the waiver request and the request for recertification if such requests are made simultaneously.

18 C.F.R. § 292.203(d)(2) allows an applicant to request a waiver of the Form 556 filing requirements, for good cause. Applicants filing a petition for declaratory order requesting a waiver under 18 C.F.R. § 292.203(d)(2) do not need to complete or submit a Form 556 with their petition.

FERC Form 556 Page 4 - Instructions

Geographic Coordinates

If a street address does not exist for your facility, then line 3c of the Form 556 requires you to report your facility's geographic coordinates (latitude and longitude). Geographic coordinates may be obtained from several different sources. You can find links to online services that show latitude and longitude coordinates on online maps by visiting the Commission's QF webpage at www.ferc.gov/QF and clicking the Geographic Coordinates link. You may also be able to obtain your geographic coordinates from a GPS device, Google Earth (available free at https://earth.google.com), a property survey, various engineering or construction drawings, a property deed, or a municipal or county map showing property lines.

Filing Privileged Data or Critical Energy Infrastructure Information in a Form 556

The Commission's regulations provide procedures for applicants to either (1) request that any information submitted with a Form 556 be given privileged treatment because the information is exempt from the mandatory public disclosure requirements of the Freedom of Information Act, 5 U.S.C. § 552, and should be withheld from public disclosure; or (2) identify any documents containing critical energy infrastructure information (CEII) as defined in 18 C.F.R. § 388.113 that should not be made public.

If you are seeking privileged treatment or CEII status for any data in your Form 556, then you must follow the procedures in 18 C.F.R. § 388.112. See www.ferc.gov/help/filing-guide/file-ceii.asp for more information.

Among other things (see 18 C.F.R. § 388.112 for other requirements), applicants seeking privileged treatment or CEII status for data submitted in a Form 556 must prepare and file both (1) a complete version of the Form 556 (containing the privileged and/or CEII data), and (2) a public version of the Form 556 (with the privileged and/or CEII data redacted). Applicants preparing and filing these different versions of their Form 556 must indicate below the security designation of this version of their document. If you are *not* seeking privileged treatment or CEII status for any of your Form 556 data, then you should not respond to any of the items on this page.

| Non-Public: Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This non-public version of the applicant's Form 556 contains all data, including the data that is redacted in the (separate) public version of the applicant's Form 556. |
|---|
| Public (redacted): Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This public version of the applicants's Form 556 contains all data except for data from the lines indicated below, which has been redacted. |
| Privileged : Indicate below which lines of your form contain data for which you are seeking privileged treatment |
| Critical Energy Infrastructure Information (CEII): Indicate below which lines of your form contain data for which you are seeking CEII status |
| |

The eFiling process described on page 2 will allow you to identify which versions of the electronic documents you submit are public, privileged and/or CEII. The filenames for such documents should begin with "Public", "Priv", or "CEII", as applicable, to clearly indicate the security designation of the file. Both versions of the Form 556 should be unaltered PDF copies of the Form 556, as available for download from www.ferc.gov/QF. To redact data from the public copy of the submittal, simply omit the relevant data from the Form. For numerical fields, leave the redacted fields blank. For text fields, complete as much of the field as possible, and replace the redacted portions of the field with the word "REDACTED" in brackets. Be sure to identify above all fields which contain data for which you are seeking non-public status.

The Commission is not responsible for detecting or correcting filer errors, including those errors related to security designation. If your documents contain sensitive information, make sure they are filed using the proper security designation.

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 06/30/2019

Form 556 Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

| | 1b Applicant street address 100 Dunbar St Suite 400 | | | |
|---|--|---|--|--|
| 1c Čity | | 1d State/provi | ince | |
| Spartanburg | | sc | | |
| 1e Postal code 29306 | 1f Country (if not United States) | | 1g Telephone number 8645945878 | |
| 1h Has the instant fa | cility ever previously been certified as a Q | F? Yes 🗌 N | No 🛛 | |
| 1i If yes, provide the | docket number of the last known QF filing | pertaining to th | his facility: QF | |
| 1j Under which certi | fication process is the applicant making th | is filing? | | |
| Notice of self-co | ertification \Box A fe | pplication for Co e; see "Filing Fee | ommission certification (requires filing e" section on page 3) | |
| QF status. A not notice of self-cer | Note: a notice of self-certification is a notice by the applicant itself that its facility complies with the requirements for QF status. A notice of self-certification does not establish a proceeding, and the Commission does not review a notice of self-certification to verify compliance. See the "What to Expect From the Commission After You File" section on page 3 for more information. | | | |
| 1k What type(s) of QF status is the applicant seeking for its facility? (check all that apply) | | | | |
| Qualifying small power production facility status Qualifying cogeneration facility status | | | | |
| 11 What is the purpose and expected effective date(s) of this filing? Original certification; facility expected to be installed by 10/1/19 and to begin operation on 12/13/19 | | | | |
| ○ Original certifice ○ Original c | ation; facility expected to be installed by | 10/1/19 a | nd to begin operation on 12/13/19 | |
| Change(s) to a previously certified facility to be effective on | | | | |
| (identify type(s) of change(s) below, and describe change(s) in the Miscellaneous section starting on page 19) | | | | |
| | ge and/or other administrative change(s) wnership | | | |
| | ffecting plant equipment, fuel use, power | production capa | acity and/or cogeneration thermal output | |
| Supplement or o | correction to a previous filing submitted o | า | | |
| | pplement or correction in the Miscellaneo | | ng on page 19) | |
| | wing three statements is true, check the basile, explaining any special circumstance | | | |
| The instant facili previously grant | cility complies with the Commission's QF i inted by the Commission in an order date Miscellaneous section starting on page 19 | d | virtue of a waiver of certain regulations (specify any other relevant waiver | |
| The instant fa | cility would comply with the Commission' with this application is granted | s QF requiremen | its if a petition for waiver submitted | |
| employment | cility complies with the Commission's region of unique or innovative technologies not cation of compliance via this form difficult. | ontemplated by | | |

| FE | RC Form 556 | | | Page 6 - All Fa | acilities |
|--|--|---------------------------------|---|-------------------------------------|-----------|
| | 2a Name of contact person | • | | 2b Telephone number | |
| | Nathaniel Smith | | | 8645945878 | |
| | 2c Which of the following describes | the contact person's rel | lationship to the ap | plicant? (check one) | |
| | Applicant (self) Emplo | oyee, owner or partner | of applicant authori | ized to represent the applicant | |
| о П | Employee of a company affiliat | | | | ľ |
| ati | Lawyer, consultant, or other rep | | | | |
| Ē | 2d Company or organization name | - | | <u>-i</u> | |
| ध् | Johnson Development Associ | | addit cricia nere din | 2 3 tap to time 20, | 1 |
| Contact Information | 2e Street address (if same as Applica | | to line 3a) | <u> </u> | |
| ac. | 100 Dumbar St | ing check here and skip | to line say | | |
| <u>tr</u> | Suite 400 | | | | |
| Ŭ | 2f City | | 2 - Chaha (| <u> </u> | - |
| | Spartanburg | | 2g State/provi | nce | |
| | | D. C | | | |
| | 2h Postal code 29306 | 2i Country (if not Unite | ed States) | | |
| | | | • | | |
| ت | 3a Facility name Heathmoor South | | | | |
| ţi | | | | | |
| g | 3b Street address (if a street address | does not exist for the f | acility, check here a | nd skip to line 3c) 🔀 | (6 |
| <u> </u> | | | | | |
| n | | | | | • |
| Beathmoor South 3b Street address (if a street address does not exist for the facility, check here and skip to line 3c) 3c Geographic coordinates: If you indicated that no street address exists for your facility by checking the then you must specify the latitude and longitude coordinates of the facility in degrees (to three decinates of the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 4 for provided a street address for your facility in line 3b, then specifying the geographic coordinates below | | | in degrees (to three decimal places and seconds: decimal degrees = es" section on page 4 for help. If you |). Use u | |
| Facility Identi | Longitude East (+) 81 | .968 degrees | Latitude | North (+) 34.811 degree | S |
| × F | 3d City (if unincorporated, check her | re and enter nearest city | y) 3e State/pr | | |
| ≝ | Roebuck | | South Ca | rolina | |
| ac | 3f County (or check here for indeper | ndent city) | 3g Country (if not | United States) | |
| ш. | Spartanburg | , | | · | 4 |
| | Identify the electric utilities that are co | ontemplated to transac | t with the facility. | | |
| Š | 4a Identify utility interconnecting with the facility | | | | |
| ΞĘ | Duke Energy Carolinas | | | | |
| I ransacting ⊍tilities | 4b Identify utilities providing wheeli | ng service or check her | e if none 🏻 | | |
| Ĕ | A laboration of the state of th | | | | |
| aG | 4c Identify utilities purchasing the us | setul electric power out | put or check here if | none [| (|
| Z L | Duke Energy Carolinas | | | | |
| Tra | 4d Identify utilities providing supple service or check here if none | mentary power, backup | o power, maintenar | nce power, and/or interruptible pow | ver [|

service or check here if none Duke Energy Carolinas

Page 7 - All Facilities FERC Form 556

| | a Direct ownership as of effective date or operation date: Identify all direct owners of the facility holding at least 10 percent equity interest. For each identified owner, also (1) indicate whether that owner is an electric utility, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding company, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) for owners which are electric utilities or holding companies, provide the percentage of equity interest in the facility held by that owner. If no direct owners hold at least 10 percent equity interest in the facility, then provide the required information for the two direct owners with the largest equity interest in the facility. | | | | |
|----------------------------|--|---|--|--|--|
| 1) | Full legal names of direct owners | Electric utility or holding company | If Yes, % equity interest | | |
| 1 |) JSD Management, LLC | _ Yes 🗌 No 🛚 |] | | |
| 2 |) | _ Yes _ No _ |] | | |
| 3 | · | _ Yes [No [|] | | |
| 4 |) | _ Yes [No [|] | | |
| 5 | · · · · · · · · · · · · · · · · · · · | _ Yes 🗍 No 🗌 |] | | |
| 6 | | _ Yes No |]! | | |
| 7 |) | Yes No | | | |
| 8 |) | _ Yes No |] | | |
| 9 |) | Yes No |] | | |
| 1 | 0) | _ Yes _ No _ |] | | |
| | of the facility that both (1) hold at least 10 percent equity interest in the facility, and defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding core 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also | npanies, as defined ir | ies, as n section | | |
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| FE | RC Form 556 | Page 8 - All | Facilities | | | |
|--------------|--|--|------------|--|--|--|
| | 6a Describe the primary energy input: (che | k one main category and, if applicable, one subcategory) | | | | |
| | Biomass (specify) | Renewable resources (specify) Geothermal | | | | |
| | ☐ Landfill gas | ☐ Hydro power - river ☐ Fossil fuel (specify) | | | | |
| | ☐ Manure digester gas | ☐ Hydro power - tidal ☐ Coal (not waste |) | | | |
| | ☐ Municipal solid waste | ☐ Hydro power - wave ☐ Fuel oil/diesel | | | | |
| | Sewage digester gas | ∑ Solar - photovoltaic | t waste) | | | |
| | ☐ Wood | ☐ Solar - thermal ☐ Other fossil fuel | | | | |
| | ☐ Other biomass (describe on pa | ge 19) 🔲 Wind 🗀 (describe on pa | ge 19) | | | |
| | Waste (specify type below in line 6b) | Other renewable resource Other (describe on pa | ge 19) | | | |
| | 6b If you specified "waste" as the primary e | ergy input in line 6a, indicate the type of waste fuel used: (check on | e) | | | |
| | Waste fuel listed in 18 C.F.R. § 292. | 02(b) (specify one of the following) | | | | |
| | ☐ Anthracite culm produced pa | or to July 23, 1985 | | | | |
| | Anthracite refuse that has an ash content of 45 percent or | average heat content of 6,000 Btu or less per pound and has an aver nore | rage | | | |
| | Bituminous coal refuse that he average ash content of 25 pe | as an average heat content of 9,500 Btu per pound or less and has a reent or more | n | | | |
| Energy Input | determined to be waste by the (BLM) or that is located on no | s coal produced on Federal lands or on Indian lands that has been e United States Department of the Interior's Bureau of Land Manage n-Federal or non-Indian lands outside of BLM's jurisdiction, provided atter coal is an extension of that determined by BLM to be waste | | | | |
| | Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by the BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that applicant shows that the latter is an extension of that determined by BLM to be waste | | | | | |
| | Lignite produced in association with the production of montan wax and lignite that becomes exposed as a result of such a mining operation | | | | | |
| | ☐ Gaseous fuels (except natura | ☐ Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19) | | | | |
| | | oil wells (describe on page 19 how the gas meets the requirements al gas; include with your filing any materials necessary to demonstra 400) | | | | |
| | ☐ Materials that a government | gency has certified for disposal by combustion (describe on page 1 | 9) | | | |
| | ☐ Heat from exothermic reaction | ns (describe on page 19) Residual heat (describe on page 19) | age 19) | | | |
| | ☐ Used rubber tires ☐ | lastic materials Refinery off-gas Petroleum | coke | | | |

6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(ji)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).

lack of commercial value and existence in the absence of the qualifying facility industry)

| Fuel | input for specified fuel | annual energy input |
|-----------------|--------------------------|---------------------|
| Natural gas | 0 Btu/h | 0 % |
| Oil-based fuels | 0 Btu/h | 0 % |
| Coal | 0 Btu/h | c % |

Indicate the maximum gross and maximum net electric power production capacity of the facility at the point(s) of delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/or losses identified in lines 7b through 7e are negligible, enter zero for those lines.

| mics is allough it 2 are magnificate and references. | | 1 |
|---|------------|------|
| 7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions | 2,000 | kW |
| 7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power. | | Lage |
| Teported parastic station power. | 8_ | kW |
| 7c Electrical losses in interconnection transformers | 32 | kW |
| 7d Electrical losses in AC/DC conversion equipment, if any | 0 | kW |
| 7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility | 0 | kW |
| 7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e | 40.0 | kW |
| 7g Maximum net power production capacity = 7a - 7f | · <u>-</u> | |
| | 1,960.0 | kW |

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19.

The Heathmoor South Solar Project is located in Spartanburg County, SC. It will consist of arrays of solar panels (yet to be determined) that are mounted onto racking systems that are equipped with single-axis trackers. The output from the arrays will be delivered to one (1), ABB PVS980, 1500V DC, 2300 KVA inverter. A total of 2.0 MW is expected to be generated at the inverter terminals.

The project will utilize the inverters' reactive capability to provide the reactive compensation necessary to meet DEC's Reactive Policy. This policy requires a 2.0 MW project (measured at the POI) to be able to supply or absorb approx. 0.79 MVar at varying POI terminal voltages. The project is expected to be capable of complying with this requirement without additional compensation.

The project will have a generator pad-mounted transformer for the inverter. The output of the inverter will be at 12.47 kV a collector system will deliver the power to a collector station. The collector station will connect to the Point of Interconnection - a connection to the 12.47 kV, three-phase line along Hwy 221.



Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

| | Pursuant to 18 C.F.R. § 292.204(a), the with the power production capacity resource, are owned by the same per megawatts. To demonstrate complia from this size limitation under the So (Pub. L. 101-575, 104 Stat. 2834 (1996) through 8e below (as applicable). | of any other small powerson(s) or its affiliates, and snce with this size limitallar, wind G lar, Wind, Waste, and G | er production facilities that use nd are located at the same site, ation, or to demonstrate that yo eothermal Power Production In | the same energy may not exceed 80 our facility is exempt centives Act of 1990 |
|---|---|--|--|---|
| | 8a Identify any facilities with electric equipment of the instant facility, and at least a 5 percent equity interest. | cal generating equipme for which any of the er | ent located within 1 mile of the attities identified in lines 5a or 58 | electrical generating o, or their affiliates, holds |
| Se | Check here if no such facilities exist. | \boxtimes | | |
| tification of Complian with Size Limitations | Facility location (city or county, state) | Root docket # (if any) | Common owner(s) | Maximum net power production capacity |
| om tati | 1) | QF | | kW |
| m. Ti | 2) | QF | | kW |
| n O | 3) | QF - | • | kW |
| tiol Siz | Check here and continue in the | Miscellaneous section s | tarting on page 19 if additional | space is needed |
| Certification of Compliance with Size Limitations | 8b The Solar, Wind, Waste, and Geore exemption from the size limitations in Are you seeking exemption from the Yes (continue at line 8c below the Wasthe original notice of self-celebefore December 31, 1994? Yes Self-celebefore December 31, 1994? Yes Did construction of the facility continue at line 8c below the Self-celebefore December 31, 1994? Yes Did Construction of the facility continues the Self-celebefore December 31, 1994? | n 18 C.F.R. § 292.204(a) size limitations in 18 C. w) tification or application No | for certain facilities that were confirmed from the facilities and the facilities and the facilities are confirmed from the facilities and for Commission certification of the facilities are for Commission certification of the facilities are facilities and facilities are facilities are facilities and facilities are facil | ertified prior to 1995. Incentives Act? |
| | 8e If you answered No in line 8d, inc the facility, taking into account all fac a brief narrative explanation in the M particular, describe why construction toward completion of the facility. | licate whether reasonal tors relevant to constru iscellaneous section sta started so long after th | ole diligence was exercised tow action? Yes No If you arting on page 19 of the constru e facility was certified) and the | answered Yes, provide ction timeline (in diligence exercised |
| Certification of Compliance with Fuel Use Requirements | Pursuant to 18 C.F.R. § 292.204(b), qu amounts, for only the following purp prevention of unanticipated equipme the public health, safety, or welfare, v used for these purposes may not exce period beginning with the date the fa | oses: ignition; start-up; ent outages; and allevia which would result from eed 25 percent of the to | testing; flame stabilization; cor tion or prevention of emergend electric power outages. The a otal energy input of the facility of | itrol use; alleviation or lies, directly affecting mount of fossil fuels during the 12-month |
| of (Re | 9a Certification of compliance with 1 | 8 C.F.R. § 292.204(b) wi | th respect to uses of fossil fuel: | |
| ion (Use | Applicant certifies that the fac | cility will use fossil fuels | exclusively for the purposes list | ed above. |
| Certificatio vith Fuel U | 9b Certification of compliance with 1 Applicant certifies that the an ⊠ percent of the total energy in facility first produces electric | nount of fossil fuel used put of the facility during | at the facility will not, in aggre g the 12-month period beginni | gate, exceed 25 |

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Information Required for Cogeneration Facility

if you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

| | | · · · · · · · · · · · · · · · · · · · |
|-------------------------------------|--|---|
| | energy (such as heat or suse of energy. Pursuant cycle cogeneration facilithermal application or p | 92.202(c), a cogeneration facility produces electric energy and forms of useful thermal steam) used for industrial, commercial, heating, or cooling purposes, through the sequential to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a toppingty, the use of reject heat from a power production process in sufficient amounts in a rocess to conform to the requirements of the operating standard contained in 18 C.F.R. § ottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal or power production. |
| | 1 | reneration technology does the facility represent? (check all that apply) |
| | Topping-cycle | e cogeneration Bottoming-cycle cogeneration |
| | other requirements balance diagram de meet certain requir | te the sequential operation of the cogeneration process, and to support compliance with a such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and rements, as described below. You must check next to the description of each requirement at you have complied with these requirements. |
| | Check to certify compliance with | |
| | indicated requirement | Requirement |
| General Cogeneration Information | | Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process. |
| | | Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation. |
| | | Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values. |
| | | Diagram must specify average gross electric output in kW or MW for each generator. |
| | | Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output. |
| | | At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/(lb*R) or 4.195 kJ/(kg*K). |
| | | Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine. |
| | | Diagram must specify working fluid flow conditions at delivery to and return from each thermal application. |
| | | Diagram must specify working fluid flow conditions at make-up water inputs. |





| | FERC | Form | 556 |
|--|-------------|------|-----|
|--|-------------|------|-----|

Page 12 - Cogeneration Facilities

| | EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements. | |
|---|--|---|
| | 11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No | |
| | 11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No | |
| se Se | If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below. | |
| ental Use Facilities | 11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006? | 4 |
| me 'n F | Yes (continue at line 11d below) | |
| Funda neratio | No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j. | 1 |
| s for oger | 11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements? | |
| ement from C | Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j. | |
| Act 2005 Requirements for Fundamental Use Energy Output from Cogeneration Facilities | No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e. | |
| 05 7 7 05 | 11e Will electric energy from the facility be sold pursuant to section 210 of PURPA? | Í |
| ۸ct 2005 Energy (| Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below. | • |
| EPA(of E | No. Applicant certifies that energy will <i>not</i> be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) <i>before</i> selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j. | |
| | 11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW? | 6 |
| | Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j. | |
| | No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g. | |

EPAct 2005 Requirements for Fundamental Use of Energy Output from Cogeneration Facilities (continued)

Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page.

18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this page, then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement.

The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes.

Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility.

Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2).

| generation plant losses and parasitic loads) expected to be used annually for industrial, commercial, residential or institutional purposes and not sold to an electric utility | | MWh |
|---|---|------|
| 11h Total amount of electrical, thermal, chemical and mechanical energy expected to be sold to an electric utility | ÷ | MWh |
| 11i Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility = 100 * 11g /(11g + 11h) | _ | 0. % |

11j Is the response in line 11i greater than or equal to 50 percent?

Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years.

No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a QF to its host facility. Applicants providing a narrative explanation of why their facility should be found to comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want to review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard that that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. See Order No. 671 at paragraph 51. As such, the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the relevant annual standard, taking into account expected variations in production conditions.



Usefulness of Topping-Cycle Thermal Output

Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

| 144 | Identify and describe each then to each host for each use. For h separate rows. | mal host, and specify the annual average rate of t nosts with multiple uses of thermal output, provic | hermal output made available le the data for each use <i>in</i> |
|-----|---|--|--|
| | Name of entity (thermal host) taking thermal output | Thermal host's relationship to facility; Thermal host's use of thermal output | Average annual rate of thermal output attributable to use (net of heat contained in process return or make-up water) |
| 1) | | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| 2) | - | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| 3) | | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| 4) | | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| 5) | •• | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| 6) | * | Select thermal host's relationship to facility | |
| " | | Select thermal host's use of thermal output | Btu/h |

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: if you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

0

No (does not comply with efficiency standard)

| rm 556 Page 15 - Topp | ping-Cycle Cogeneration Facilities | | | | | |
|--|------------------------------------|--|--|--|--|--|
| Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping-cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of the Commission's regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle cogeneration facilities: the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneration facilities for which installation commenced on or after March 13, 1980: the useful power output of the facility plus one-half the useful thermal energy output must (A) be no less than 42.5 percent of the total energy input of natural gas and oil to the facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy output of the facility, be no less than 45 percent of the total energy input of natural gas and oil to the facility. To demonstrate compliance with the topping-cycle operating and/or efficiency standards, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below. | | | | | | |
| If you indicated in line 10a that your facility represents both topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 13a through 13I below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion (topping or bottoming) of the cogeneration system. | | | | | | |
| 13a Indicate the annual average rate of useful thermal energy output made available. | ible ' | | | | | |
| to the host(s), net of any heat contained in condensate return or make-up water | Btu/h | | | | | |
| 13b Indicate the annual average rate of net electrical energy output | _ kW | | | | | |
| 13c Multiply line 13b by 3,412 to convert from kW to Btu/h | 0 Btu/h | | | | | |
| 13d Indicate the annual average rate of mechanical energy output taken directly | | | | | | |
| of the shaft of a prime mover for purposes not directly related to power productio | n | | | | | |
| (this value is usually zero) | hp | | | | | |
| 13e Multiply line 13d by 2,544 to convert from hp to Btu/h | 0 Btu/h | | | | | |
| 13f Indicate the annual average rate of energy input from natural gas and oil | Btu/h | | | | | |
| 13g Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e) | 0 % | | | | | |
| 13h Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f | 0 % | | | | | |
| 13i Compliance with operating standard: Is the operating value shown in line 13g | | | | | | |
| | y with operating standard) | | | | | |
| 13j Did installation of the facility in its current form commence on or after March | 13, 1980? | | | | | |
| Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205(a)(2). Demonstrate compliance with the efficiency requirement by responding to line 13k or 13l, as applicable, below. | | | | | | |
| No. Your facility is exempt from the efficiency standard. Skip lines 13k and | l 13l. | | | | | |
| 13k Compliance with efficiency standard (for low operating value): If the operating value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h greater than or equal to 45%: | | | | | | |
| Yes (complies with efficiency standard) No (does not compl | y with efficiency standard) | | | | | |
| 13I Compliance with efficiency standard (for high operating value): If the operating value shown in line 13g is greater than or equal to 15%, then indicate below whether the efficiency value shown in line 13h is greater than or equal to 42.5%: | | | | | | |

Yes (complies with efficiency standard)

Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 16 and 17. Otherwise, skip pages 16 and 17.

| | The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the p which at least some of the reject heat is then used for power production. Pursuant to sections 292.1 the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a qualific cycle cogeneration facility must be useful. In connection with this requirement, describe the process at least some of the reject heat is used for power production by responding to lines 14a and 14b be 14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engathost. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for experience rows. Has the Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power Thermal host's relationship to facility; | | | | | | | |
|---|--|----------------|--|-----------------------------|--|--|--|--|
| | | production | Thermal host's process type | (if Yes, describe on p. 19) | | | | |
| | 1) | 1 | Select thermal host's relationship to facility | Yes No | | | | |
| | Ľ. | | Select thermal host's process type | | | | | |
| <u>e</u> | 2) | | Select thermal host's relationship to facility | Yes No | | | | |
| Usefulness of Bottoming-Cycle Thermal Output | | - - | Select thermal host's process type | | | | | |
| | 3) | | Select thermal host's relationship to facility | Yes □ No □ | | | | |
| | | | Select thermal host's process type | | | | | |
| | | | | | | | | |

Bottoming-Cycle Operating and Efficiency Value Calculation

than or equal to 45%:

Yes (complies with efficiency standard)

| mi 550 | Cycle Cogeneration racinites | | | | | |
|--|---|--|--|--|--|--|
| Applicants for facilities representing bottoming-cycle technology and for which install March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency stathe Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standar cogeneration facilities: the useful power output of the facility must be no less than 45 of natural gas and oil for supplementary firing. To demonstrate compliance with the best standard (if applicable), or to demonstrate that your facility is exempt from this standard installation of the facility began, respond to lines 15a through 15h below. | ndards. Section 292.205(b) of rd for bottoming-cycle percent of the energy input ottoming-cycle efficiency | | | | | |
| If you indicated in line 10a that your facility represents both topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 15a through 15h below considering only the energy inputs and outputs attributable to the bottoming-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming). | | | | | | |
| 15a Did installation of the facility in its current form commence on or after March 13, ☐ Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205 with the efficiency requirement by responding to lines 15b through 15h below ☐ No. Your facility is exempt from the efficiency standard. Skip the rest of page | (b). Demonstrate compliance /. | | | | | |
| 15b Indicate the annual average rate of net electrical energy output | | | | | | |
| | kW | | | | | |
| 15c Multiply line 15b by 3,412 to convert from kW to Btu/h | | | | | | |
| | 0 Btu/h | | | | | |
| 15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero) | hp | | | | | |
| | | | | | | |
| 15e Multiply line 15d by 2,544 to convert from hp to Btu/h | 0 Btu/h | | | | | |
| 15f Indicate the annual average rate of supplementary energy input from natural gas | | | | | | |
| or oil | Btu/h | | | | | |
| 15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f | | | | | | |
| - | . 0/ | | | | | |

15h Compliance with efficiency standard: Indicate below whether the efficiency value shown in line 15g is greater

No (does not comply with efficiency standard)





Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and signing at the bottom of this section. Forms with incomplete Certificates of Completeness, Accuracy and Authority will be rejected by the Secretary of the Commission.

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| | ig any information contained in any attached d any information contained in the Miscellar | |
|---|---|---|
| He or she has provided all of the request to the best of his or her knowledge a | uired information for certification, and the pand belief. | rovided information is true as stated, |
| He or she possess full power and aut Practice and Procedure (18 C.F.R. § 38 | hority to sign the filing; as required by Rule 2 35.2005(a)(3)), he or she is one of the followi | 2005(a)(3) of the Commission's Rules of ng: (check one) |
| ☐ The person on whose behalf | the filing is made | |
| An officer of the corporation, | trust, association, or other organized group | on behalf of which the filing is made |
| An officer, agent, or employe filing is made | of the governmental authority, agency, or l | nstrumentality on behalf of which the |
| | practice before the Commission under Rule .F.R. § 385.2101) and who possesses authorit | |
| He or she has reviewed all automatic Miscellaneous section starting on pa | calculations and agrees with their results, u ge 19. | nless otherwise noted in the |
| interconnect and transact (see lines 4 | Form 556 and all attachments to the utilitie la through 4d), as well as to the regulatory a the Required Notice to Public Utilities and S | uthorities of the states in which the |
| Procedure (18 C.F.R. § 385.2005(c)) provid | ature date below. Rule 2005(c) of the Comm les that persons filing their documents elect filed documents. A person filing this document ded below. | ronically may use typed characters |
| Your Signature | Your address | Date |
| | 100 Dunbar St Suite 400 | |
| William D Spry III | Spartamburg SC 29306 | 10/12/2018 |
| Audit Notes | | |
| Commission Staff Use Only: | | |
| | | |

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Miscellaneous

Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information clearly identify the line number that the information belongs to. You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

William D. Spry, III is the CFO of Johnson Development Associates, LLC, the Managing Member of JSD Management, LLC